Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Dredging

Load Number
1579

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
0-5 kts

Seas:
0-1'

Disposal location
Columbia River RM 101

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.8	8:31:08	7624007.49	756341.45	2.3	
DR-2	19.9	8:32:10	7623883.42	756624.58	8.0	14.7
DR-2R1	19.8	8:32:13	7623883.42	756624.58	7.9	14.7
DR-4	19.9	8:33:31	7624019.92	757088.88	5.0	
DR-4R1	19.9	8:33:34	7624020.09	757094.96	4.9	
DR-3	20.8	8:37:37	7623253.09	755408.11	11.3	
DR-3R1	20.9	8:37:40	7623253.26	755414.19	10.9	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Disposal	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DSP-1	20.5	9:13:50	7622546.44	735845.92	2.5	
1579	DSP-2	20.6	9:18:38	7622888.73	735283.08	8.2	15.3
Tidal Stage	DSP-2R1	20.5	9:18:40	7622888.73	735283.08	7.9	15.3
Ebb	DSP-3	20.8	9:20:18	7622743.22	735110.86	8.1	
Dredge State:	DSP-3R1	21.3	9:20:21	7622743.39	735116.94	7.8	
Split Hull	DSP-4	20.6	9:22:01	7622709.15	736023.73	8.1	
	DSP-4R1	20.4	9:22:03	7622709.15	736023.73	7.8	
Weather:							
Clear							
Wind:							
0-5 kts							
Seas:							
0-1'							
Disposal location							
Columbia River RM 101							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of plume,	Re-test DSP-3R1 was taken.
on port side.	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Dredging

Load Number
1580

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
0-5 kts

Seas:
0-1'

Disposal location
Columbia River RM 101

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.8	10:07:39	7623331.00	753934.68	2.5	
DR-2	20.6	10:08:57	7622950.22	754328.38	12.0	15.1
DR-2R1	20.5	10:09:01	7622950.56	754340.53	10.3	15.1
DR-4	20.4	10:10:24	7623109.06	754828.52	4.1	
DR-4R1	20.7	10:10:26	7623109.06	754828.52	4.1	
DR-3	20.5	10:13:13	7622940.95	752784.44	12.6	
DR-3R1	20.4	10:13:16	7622945.20	752784.32	12.2	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Dredging

Load Number
1581

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
0-5 kts

Seas:
0-1'

Disposal location
Columbia River RM 101

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.6	11:44:27	7622842.06	753206.70	2.7	
DR-2	20.4	11:46:04	7622726.52	753945.57	9.9	15.0
DR-2R1	20.4	11:46:06	7622726.52	753945.57	9.6	15.1
DR-4	20.4	11:47:30	7622846.56	754428.56	15.1	
DR-4R1	20.4	11:47:32	7622846.56	754428.56	14.7	
DR-3	20.6	11:50:04	7623034.42	753079.71	13.1	
DR-3R1	19.8	11:50:06	7623034.42	753079.71	12.7	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Dredging

Load Number
1582

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
0-5 kts

Seas:
0-1'

Disposal location
Columbia River RM 101

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.795	13:18:58	7623310.40	753959.58	2.7	
DR-2	20.605	13:20:34	7622949.16	753531.99	14.1	14.8
DR-2R1	20.515	13:20:36	7622949.16	753531.99	13.6	14.8
DR-4	20.657	13:21:48	7622892.44	753028.98	4.1	
DR-4R1	20.633	13:21:50	7622892.27	753022.90	4.2	
DR-3	20.789	13:24:01	7623615.46	754358.35	2.6	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of plume, on port side.	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 95+00-104+20.*

Date: 12/11/2005

Dredging

Load Number
1583

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
0-5 kts

Seas:
0-1'

Disposal location
Columbia River RM 101

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.2	14:56:58	7622943.28	755143.23	3.2	
DR-2	20.9	14:58:58	7623299.87	754646.86	16.5	15.1
DR-2R1	20.7	14:59:02	7623299.87	754646.86	12.7	15.1
DR-4	20.9	15:01:40	7623164.20	754516.92	12.7	
DR-4R1	20.8	15:01:42	7623164.20	754516.92	12.3	
DR-3	20.9	15:03:10	7623155.07	756012.74	3.1	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of plume, on port side.	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Load 1579

DR-4R1	7624020.09	757094.96
DR-4	7624019.92	757088.88
DR-3R1	7623253.26	755414.19
DR-3	7623253.09	755408.11
DR-2R1	7623883.42	756624.58
DR-2	7623883.42	756624.58
DR-1	7624007.49	756341.45

Disposal

DSP-4R1	7622709.15	736023.73
DSP-4	7622709.15	736023.73
DSP-3R1	7622743.39	735116.94
DSP-3	7622743.22	735110.86
DSP-2R1	7622888.73	735283.08
DSP-2	7622888.73	735283.08
DSP-1	7622546.44	735845.92

Load 1580

DR-4R1	7623109.06	754828.52
DR-4	7623109.06	754828.52
DR-3R1	7622945.20	752784.32
DR-3	7622940.95	752784.44
DR-2R1	7622950.56	754340.53
DR-2	7622950.22	754328.38
DR-1	7623331	753934.68

Load 1581

DR-4R1	7622846.56	754428.56
DR-4	7622846.56	754428.56
DR-3R1	7623034.42	753079.71
DR-3	7623034.42	753079.71
DR-2R1	7622726.52	753945.57
DR-2	7622726.52	753945.57
DR-1	7622842.06	753206.7

Load 1582

DR-4R1	7622892.27	753022.90
DR-4	7622892.44	753028.98
DR-3	7623615.46	754358.35
DR-2R1	7622949.16	753531.99
DR-2	7622949.16	753531.99
DR-1	7623310.4	753959.58

Load 1583

DR-4R1	7623164.20	754516.92
DR-4	7623164.20	754516.92
DR-3	7623155.07	756012.74
DR-2R1	7623299.87	754646.86
DR-2	7623299.87	754646.86
DR-1	7622943.28	755143.23